CMP-03 Solar Charge Controller (User's Manual)

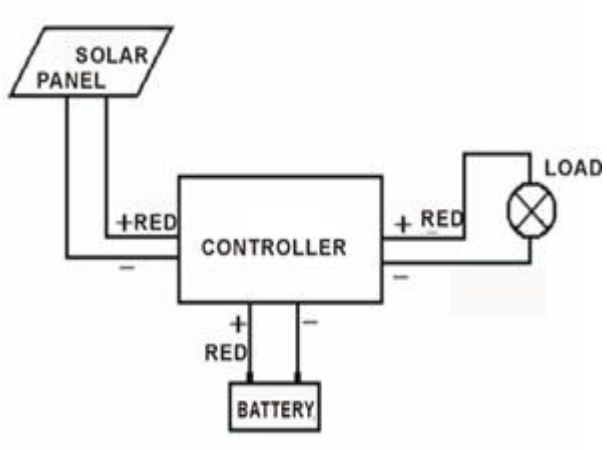
This solar charge controller is designed for solar lawn lights, solar garden lights, Mini solar street light, and Mini solar advertising light box and so on. The box of the controller is compact sealed with silicon. They have the function of Temperature Compensation during charging and Sensor Control (optional), fit for 24W 12V or 36W 12V solar panels.

Function:

1. Overcharging and Over discharging protection.
2. Prevent the reverse current from the battery to the solar panel at night time.
3. Automatically open the loads after sunset according to the light intensity. (Optional)
4. Automatically close the loads:
   A: battery voltage is in full condition: automatically close the loads after sunrise.
   B: the voltage of battery is low; automatically close loads in advance.

Connection: (Refer to Drawing)

1. Connect the "+" "-" poles of the battery with relevant cables. Red colour is "+"
2. Connect the "+" "-" poles of the solar panel with relevant cables on the left of the picture. Red colour is "+"
3. Connect the "+" "-" poles of the loads with relevant cables on the right of the picture. Red colour is "+"



Indicator:

1. One charging indicator, light indicates strong charging, flash indicates float charging, no light indicates stop charging.
2. One Load indicator, light indicates there is a power output, the loads are working normal, no light indicates no output, the loads cannot work. (See Picture)

Attention:

1. Please check the rated voltage of the solar panel and loads, they must be same with controller, all their voltage should be 12V.

2. The input current of the solar panel and output current of the loads cannot do more than the rated current of the controller. (2A or 3A)

3. The controller does not have a short circuit function.

4. Forbid the use of other DC power supply instead of solar panels for the battery charging through the controller.

Technical data:

Rated Voltage	12V	LVD (Low Voltage Disconnection)	10.5V
Rated Charge Current	3A	LVR (Low Voltage Reconnection)	12.0V
Rated Discharge Current	3A	Light Controller Mode	visibility 20m
HVD (High Voltage Disconnection)	14.4V	Temperature	－10- +40℃
Temperature Compensation	-3mV/℃/cell	Relative Humidity	≦90%
Size	55×36×20mm	Net weight	33g